



**All the following examples must be written using Javascript language.**

1. Find the Maximum Value in an Array using a function called 'findMaxValue' that takes an array as a parameter and returns the maximum value in this array. The maximum value is then printed to the console.
2. Count the Occurrences of an Element in an Array using a function called 'countOccurrences' that takes an array and an element as parameters and returns the count of occurrences of this element in array. The occurrence count is then printed to the console.
3. Generating a Fibonacci Sequence by defining a function called 'generateFibonacciSequence' that takes a length as a parameter and returns the generated Fibonacci sequence. The Fibonacci sequence is then printed to the console.
4. You must create an array called 'numbers' that contains a list of numbers. You must define a function called 'isEven' that checks if a given number is even. Then, initialize an empty array called 'evenNumbers' to store the even numbers and their squares. Create an object called 'squareObject' that stores the even number as well as its square. Finally, add the 'squareObject' to the 'evenNumbers' array. Print the 'evenNumbers' array to the console, which will display the objects containing the even numbers and their squares.



## **Sheet #2**

### Web Information Systems

### IS413

